

Title (en)

Mobile terminal capable of providing multi-haptic effect and method of controlling the mobile terminal

Title (de)

Tragbares Endgerät, das einen Multihaptikeffekt bereitstellen kann, und Verfahren zur Steuerung des tragbaren Endgeräts

Title (fr)

Terminal mobile capable de fournir un effet multi-haptique et procédé pour contrôler le terminal mobile

Publication

EP 2244169 A2 20101027 (EN)

Application

EP 10004153 A 20100419

Priority

KR 20090034744 A 20090421

Abstract (en)

Method for providing feedback includes detecting user input relative to a location of a display of a mobile terminal, such that the user input includes an initial region of input and an ending region of input. One operation includes generating, responsive to the user input, a first haptic feedback at a first location of a mobile terminal, such that the first location corresponds to the initial region of input. Another operation includes generating, responsive to the user input, a second haptic feedback at a second location of the mobile terminal, such that the second location corresponds to the ending region of input, and the second haptic feedback begins at a point of time that occurs after the first haptic feedback has begun.

IPC 8 full level

G06F 3/01 (2006.01); **G06F 3/041** (2006.01); **G06F 3/048** (2006.01); **G06F 3/0488** (2013.01); **H04M 1/724** (2021.01)

CPC (source: EP KR US)

G06F 3/016 (2013.01 - EP KR US); **G06F 3/0412** (2013.01 - KR); **G06F 3/04883** (2013.01 - EP KR US); **H04M 1/57** (2013.01 - KR); **H04M 1/724** (2021.01 - EP KR US); **H04M 19/047** (2013.01 - KR); **H04M 1/27475** (2020.01 - EP US); **H04M 1/57** (2013.01 - EP US); **H04M 19/047** (2013.01 - EP US); **H04M 2250/22** (2013.01 - EP KR US)

Citation (applicant)

- WO 2008042745 A2 20080410 - IMMERSION CORP [US], et al
- DE 102005048230 A1 20070412 - VOLKSWAGEN AG [DE]
- EP 1310860 A1 20030514 - NTT DOCOMO INC [JP]
- EP 1731993 A1 20061213 - SONY CORP [JP]
- WO 9905583 A2 19990204 - KONINKL PHILIPS ELECTRONICS NV [NL], et al

Cited by

WO2012061387A1; CN103262510A; CN104182138A; EP2839366A4; EP2717150A3; EP3091420A3; WO2012001208A1; US10168741B2; US9380145B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2244169 A2 20101027; **EP 2244169 A3 20110309**; **EP 2244169 B1 20180530**; KR 101553842 B1 20150917; KR 20100116034 A 20101029; US 2010267424 A1 20101021; US 9008730 B2 20150414

DOCDB simple family (application)

EP 10004153 A 20100419; KR 20090034744 A 20090421; US 76404710 A 20100420